Renewable Energy In Israel, The “Eilat Eilot model”
Innovation, Regulations & Opportunities

Dorit Davidovich - Banet
Co-Founder & CEO
Eilat Eilot RE Initiative
Five important facts about Israel regarding Planning the electricity sector
High growth rates and crowded country

- Energy island of 16,500 Mw installed (with Security reserve of 19%)
- Population: 8.7 Mil
- Households: 2.1 Mil
- Demographic growth calculated for the electricity sector growth: 2.7%
- If taking in consider electric cars: 3.6%
- GDP growth rate till 2030: 3.4%
electricity consumption Per capita in OECD countries
Israel is No. 69 among 100 world's best radiation zones
Natural gas reserves were found along the shore.
The country is *the* cleantech innovation archetype. Relative to the size of its economy, Israel has had a disproportionate number of cleantech companies.

*Global Cleantech 100 index*

**Cleantech Country Innovation Index**
“Solar will boom, accounting for 35% of global capacity additions”
Given the facts, this is Israel target scenario capacity for 2030
The required development of renewable energy supplier in the year 2030
So, in the next 12 years the investments required in the electricity market in Israel are going to be **15 billion $** (without taking into consider the infrastructures to the electric cars).
The **challenges** and the **opportunity** to increase the percentage of renewable energy

1. How to introduce Massive amount of solar energy to a very loaded grid.

2. How to make solar energy a reliable source for use on a national level - storage and demand management.
3. Avoiding the construction of new transmission lines and the creation of local microgrid lines that are backed up to the large grid

4. Encouraging infrastructures for “Prosumers”

5. Demand management based on weather forecasting

6. Cyber Infrastructure Prevention
A leader in PV Power Electronics

- SolarEdge
- solararound
- SolarBead
Meeting the Challenge of the Smart Grid

- Greenlet - energy management and Peak Shaving
- Panoramic Power - full transparency of energy flow and usage
- Grid On - Fault Current Limiter (FCL) platform of solutions engineered to protect electrical distribution and transmission networks
- PowerCom - Smart Metering Technology
- Peak Dynamics - Meter data analytics
- Lncom - Demand response and peak shifting
The Sleeping Giant

Energy Efficiency Start-ups

• Metrolight - electronic ballast solutions for HID lighting systems
• Phoebus Energy - hybrid water heating system
• PowerSines - energy efficiency and electrical savings in outdoor lighting
Government Pushing Forward

• Renewable Energy Technological Center (Capital Nature)
• Energy Academia Excellence Program
• Industrial Consortium for Batteries
• Supporting Beta Sites and Pilot Projects
• International Cooperation
3 Days - 3 Main Tracks
Renewables - Smart Energy – Oil Free
Business – Innovation – Implementation - Policy
Over 1800 top level speakers and participants
Exceptional Business Networking
Leading RE Startups Presented
Facinating site tours
ENERGYvest